



Science Toolkit: Grade 5 Objective 1.C.1.a

Student Handout: Science: Grade 5 Objective 1.C.1.a

Standard 1.0 Skills and Processes

Topic C. Communicating Scientific Information

Indicator 1. Recognize that clear communication is an essential part of doing science because it enables scientists to inform others about their work, expose their ideas to criticism by other scientists, and stay informed about scientific discoveries around the world.

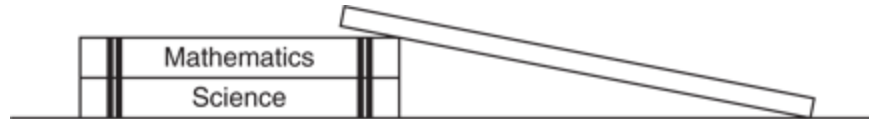
Objective a. Make use of and analyze models, such as tables and graphs to summarize and interpret data.

Selected Response (SR) Item

Question

Use the information below to answer the following.

Students used two textbooks and a board to make a ramp. The students rolled Ball 1 down the ramp. They measured the distance the ball traveled in 10 seconds. The students repeated the investigation, using Ball 2. The students calculated the average speed of each ball after five trials and recorded the information in the data table below.

**DATA AFTER FIVE TRIALS**

Ball	1	2
Mass (grams)	5	10
Average Distance (centimeters)	25	30
Time (seconds)	10	10
Average Speed (centimeters per second)	2.5	3.0

Which of the following statements best compares the balls in the investigation?

- A. Ball 2 traveled slower than Ball 1.
- B. Ball 2 traveled farther than Ball 1.
- C. Ball 1 had more mass than Ball 2.
- D. Ball 1 rolled more seconds than Ball 2.

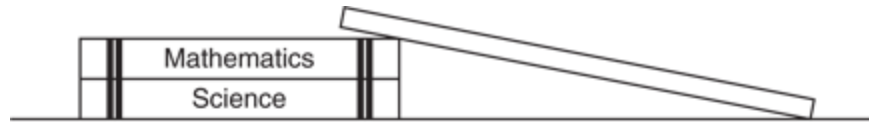
Correct Answer

- B. Ball 2 traveled farther than Ball 1.

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